



TECHNICAL DATA SHEET (TDS)

HIPS PS3HI HIGH IMPACT POLYSTYRENE

OVERVIEW: Design specifically for extrusion/ thermoforming.

Applications: Custom sheet extrusion, extrusion thermoforming, packaging, form, fill, seal.

Complies with the specifications U.S. FDA 21 CFR 177.1640

ADDITIVE:

Properties	Test Method	Units	Nominal Values
Melt Flow (200°C-5 kg)	ASTM D-1238	g/10min	3.0
Density		g/cm ³	1.04
Properties			
Falling Dart	ASTM D-3029	in-lb.	110
Izod - notched	ASTM D-256	ft.-lbs.-in	2.3
Tensile strength	ASTM D-638	Psi	3600
Tensile Modulus	ASTM D-638	Psi(10 ⁵)	3.0
Elongation	ASTM D-638	%	50
Flexural Strength	ASTM D-790	Psi	6900
Flexural Modulus	ASTM D-790	Psi(10 ⁵)	3.2
Heat Distortion-Annealed	ASTM D-648	°F	202
Vicat Softening	ASTM D-1525	°F	215
Gloss	ASTM D-523	60°	70
Linear Shrinkage	ASTM D-955	in/in	.004-.007
Moisture		%	<0.1

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